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1 Mini-buckets: A general scheme for bounded inference

Rina Dechter, Irina Rish

March 2003 **Journal of the ACM (JACM)**, Volume 50 Issue 2

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (902.27 KB)

Additional Information: [full citation](#), [abstract](#), [...](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 88, Citation

This article presents a class of approximation algorithms that extend the inference, inspired by successful constraint propagation algorithms, to combinatorial optimization. The idea is to bound ...

Keywords: Accuracy/complexity trade-off, Bayesian networks, approximate combinatorial optimization, probabilistic inference.

2 The complexity of computing a Nash equilibrium

Constantinos Daskalakis, Paul W. Goldberg, Christos H. Papadimitriou

February 2009 **Communications of the ACM**, Volume 52 Issue 2

Publisher: ACM [Request Permissions](#)

Full text available: Digital Edition, Html (59.30 KB), Pdf (2.01 MB) Additional In

Bibliometrics: Downloads (6 Weeks): 96, Downloads (12 Months): 500, Citat

How long does it take until economic agents converge to an equilibrium the problem of computing a mixed Nash equilibrium in a game, we prov games in which convergence to such an equilibrium takes ...

3 Class notes: don't be a WIMP: (<http://www.not-for-wimps.org>)

Johannes Behr, Dirk Reiniers

August 2008 **SIGGRAPH '08**: SIGGRAPH 2008 classes

Publisher: ACM [Request Permissions](#)

Full text available: Flv (93:37 MIN), Mov (93:28 MIN), Pdf (6.40 MB) Additional I

Bibliometrics: Downloads (6 Weeks): 42, Downloads (12 Months): 409, Citat

Virtual and augmented reality have been around for a long time, but for fantasies. Very few people outside a few research labs have worked with for themselves. On the other hand, interactive 3D ...

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- 4 [A fault model notation and error-control scheme for switch-to-switch](#)
 Heiko Zimmer, Axel Jantsch
 October 2003 **CODES+ ISSS '03**: Proceedings of the 1st IEEE/ACM/IFIP international conference on Hardware/software codesign and system synthesis
Publisher: ACM
 Full text available: [Pdf](#) (159.38 KB) **Additional Information:** [full citation](#), [abstract](#), [bibliometrics](#)
Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 61, Citation

The reliability of a Network-on-Chip will be significantly influenced by the switch connections. Faults on these buses may cause disturbances on network errors on these wires can no longer be considered ...

Keywords: bus encoding, fault tolerance, network-on-chip

- 5 [Learning juntas](#)
 Elchanan Mossel, Ryan O'Donnell, Rocco P. Servedio
 June 2003 **STOC '03**: Proceedings of the thirty-fifth annual ACM symposium
Publisher: ACM [Request Permissions](#)
 Full text available: [Pdf](#) (173.48 KB) **Additional Information:** [full citation](#), [abstract](#), [bibliometrics](#)
Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 41, Citation

We consider a fundamental problem in computational learning theory: Is there a function which depends on an unknown set of k out of n Boolean variables? We study learning such functions from uniform random ...

Keywords: fourier, juntas, learning, relevant variables, uniform distribution

- 6 [Accelerating concurrent hardware design with behavioural modelling](#)
 Allan Sibburt, Ian Perryman, Janick Bergeron, Stacy Nichols, Mario Dufresne
 January 1995 **DAC '95**: Proceedings of the 32nd annual ACM/IEEE Design Automation Conference
Publisher: ACM [Request Permissions](#)
 Full text available: [Pdf](#) (45.43 KB) **Additional Information:** [full citation](#), [references](#)
Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 11, Citation

- 7 [Low complexity LDPC code decoders for next generation standards](#)
 T. Brack, M. Alles, T. Lehnigk-Emden, F. Kienle, N. Wehn, N. E. L'Insalata
 April 2007 **DATE '07**: Proceedings of the conference on Design, automatic test and verification
Publisher: EDA Consortium
 Full text available: [Pdf](#) (557.02 KB) **Additional Information:** [full citation](#), [abstract](#), [bibliometrics](#)
Bibliometrics: Downloads (6 Weeks): 35, Downloads (12 Months): 185, Citation

This paper presents the design of low complexity LDPC codes decoders for 802.11n, WiMax (IEEE802.16e) and DVB-S2 standards. A complete example is given, spanning from the decoding schedules, the node processing ...

- 8 [Slick: slice-based locality exploitation for efficient redundant multithreading](#)
 Angshuman Parashar, Anand Sivasubramanian, Sudhanva Gurumurthi
 November 2006 **ASPLOS-XII**: Proceedings of the 12th international conference on Architectural Support for Programming Languages and Operating Systems

for programming languages and operating systems

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (304.49 KB)

Additional Information: [full citation](#), [abstract](#), [r](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 64, Citation


Transient faults are expected to be a major design consideration in future proposals for transient fault detection in processor cores have revolved threading, which involves redundant execution of a ...

Keywords: backward slice extraction, microarchitecture, redundant thr

Also published in:

October 2006 **SIGOPS Operating Systems Review** Volume 40 Issue 5
 October 2006 **SIGARCH Computer Architecture News** Volume 34 Issue 5
 November 2006 **SIGPLAN Notices** Volume 41 Issue 11

9 [Communications of the ACM: Volume 52 Issue 2](#)


 February 2009 Communications of the ACM

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (7.09 MB) Additional Information: [full citation](#)


Bibliometrics: Downloads (6 Weeks): 613, Downloads (12 Months): 2975, Citi

10 [Abstract order type extension and new results on the rectilinear cross](#)

 Oswin Aichholzer, Hannes Krasser

June 2005 **SCG '05: Proceedings of the twenty-first annual symposium on**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (162.85 KB)


Additional Information: [full citation](#), [abstract](#), [r](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 14, Citation

We extend the order type data base of all realizable order types in the p
 11. More precisely, we provide a complete data base of all combinatoria
 points in general position in the plane. In ...


Keywords: complete graph, order type, pseudoline arrangement, rectil

11 [On the crossing number of complete graphs](#)

 Oswin Aichholzer, Franz Aurenhammer, Hannes Krasser

June 2002 **SCG '02: Proceedings of the eighteenth annual symposium on**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (144.11 KB)

Additional Information: [full citation](#), [abstract](#), [r](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 29, Citation

(MATH) Let $\overline{cr}(G)$ denote the rectilinear crossing number of G
 $\overline{cr}(K_{11}) = 102$ and $\overline{cr}(K_{12}) = 153$. Despite the remar
 numbers of the ...


Keywords: complete graph, order type, rectilinear crossing number

12 Complete Identification Methods for the Causal Hierarchy

Itai Shpitser, Judea Pearl

June 2008 **The Journal of Machine Learning Research**, Volume 9

Publisher: MIT Press

Full text available:  Pdf (362.83 KB) Additional Information: [full citation](#), [abstract](#), [request permissions](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 38, Citation


We consider a hierarchy of queries about causal relationships in graphic the hierarchy requires more detailed information than the one below. The levels: associative relationships, derived from ...

13 The price of privacy and the limits of LP decoding

 Cynthia Dwork, Frank McSherry, Kunal Talwar

June 2007 **STOC '07: Proceedings of the thirty-ninth annual ACM symposium**

Publisher: ACM [Request Permissions](#)


Full text available:  Pdf (283.62 KB) Additional Information: [full citation](#), [abstract](#), [request permissions](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 211, Citation

This work is at the intersection of two lines of research. One line, initiate investigates the price, in accuracy, of protecting privacy in a statistical model from an extensive literature on compressed sensing ...


Keywords: LP decoding, basis pursuit, compressed sensing, privacy

14 Practical experience teaching embedded systems

 Carlos Almeida

October 2008 **SIGBED Review**, Volume 5 Issue 3

Publisher: ACM


Full text available:  Pdf (139.91 KB) Additional Information: [full citation](#), [abstract](#), [request permissions](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 9, Citation

The area of embedded systems and their interconnection is of utmost in technological evolution, and widespread use, of small electronic devices communication capabilities, creates the potential for the development ...

Keywords: embedded systems development, embedded systems education

15 An FPGA implementation of low-density parity-check code decoder

 Lei Yang, Manyuan Shen, Hui Liu, C.-J. Richard Shi

January 2005 **ASP-DAC '05: Proceedings of the 2005 conference on Asia So**

Publisher: ACM

Full text available:  Pdf (490.31 KB) Additional Information: [full citation](#), [abstract](#), [request permissions](#)


Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 49, Citation

With superior error correction capability, low-density parity-check (LDPC) interests in wireless telecommunication fields. In the past, various struc

decoders have been implemented for different ...

- 16 [An annotated bibliography on microprogramming: late 1969 -- early 1972](#)
 Louise H. Jones, Kenneth Carvin, Janet Hauser, Paul Herrmann, Frank Pehl
 Van Name


September 1972 **MICRO 5**: Conference record of the 5th annual workshop
Publisher: ACM

Full text available:  [Pdf](#) (873.04 KB) **Additional Information**: full citation, references

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 22, Citation

- 17 [Admission control and concurrent scheduling for IPTV over mmWave](#)
 Lin X. Cai, Lin Cai, Xuemin Sherman Shen, Jon W. Mark
 July 2008 **QShine '08**: Proceedings of the 5th International ICST Conference

Networking for Quality, Reliability, Security and Robustness
Publisher: ICST (Institute for Computer Sciences, Social-Informatics and Telecommunications)

Full text available:  [Pdf](#) (120.93 KB) **Additional Information**: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 9, Citation

Communications at 60 GHz millimeter-wave (mmWave) band is a promising technology for
 wireless personal area networks (WPAN) supporting high data rate applications. IPTV
 is anticipated to be one of the next killer applications, ...

- 18 [FPGA-based networking systems for high data-rate and reliable in-vehicle communications](#)
 Sergio Saponara, Esa Petri, Marco Tonarelli, Iacopo Del Corona, Luca Fanucci
 April 2007 **DATE '07**: Proceedings of the conference on Design, automatic

Publisher: EDA Consortium


Full text available:  [Pdf](#) (448.24 KB) **Additional Information**: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 64, Citation

The amount of electronic systems introduced in vehicles is continuously increasing. This
 complex electronic control systems and above all future applications such as
 safety warnings require in-car reliable communication backbones ...

- 19 [Cost-driven vertical class partitioning for methods in object oriented languages](#)
 Chi-Wai Fung, Kamalakara Karlapalem, Qing Li
 October 2003 **The VLDB Journal — The International Journal on Very Large Databases**

Issue 3
Publisher: Springer-Verlag New York, Inc.

Full text available:  [Pdf](#) (334.54 KB) **Additional Information**: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 66, Citation

Abstract. In object-oriented databases (OODBs), a method encapsulated a set of data
 few, but not all the instance variables defined in the class. It may thus be
 partition the class for reducing irrelevant data ...

Keywords: Affinity-based, Analytical cost model, Cost-driven, Hill-climb, Method-induced, Object-oriented databases, Vertical class partitioning

- 20 [Batch codes and their applications](#)

Yuval Ishai, Eyal Kushilevitz, Rafail Ostrovsky, Amot Sahai



June 2004 **STOC '04**: Proceedings of the thirty-sixth annual ACM symposium

Publisher: ACM



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Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 37, Citation

A *batch code* encodes a string x into an m -tuple of strings, called *bucket* bits from x can be decoded by reading at most one (more generally, t) l codes can be viewed as relaxing several ...

Keywords: coding, distributed storage, load balancing, locally decodable retrieval

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